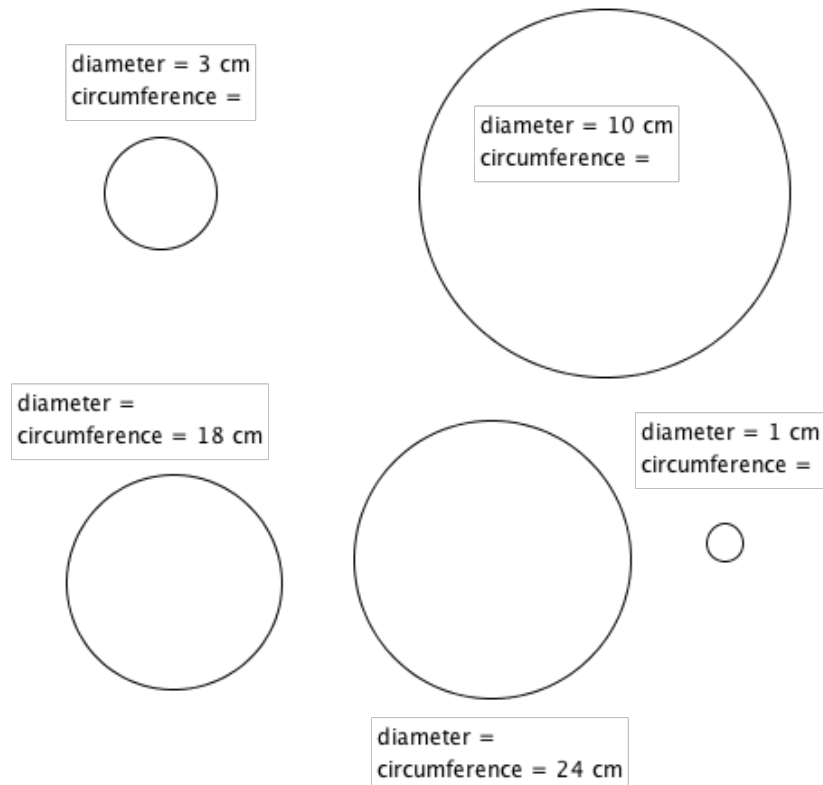


Activity Statement: Calculating Circumference and Diameter

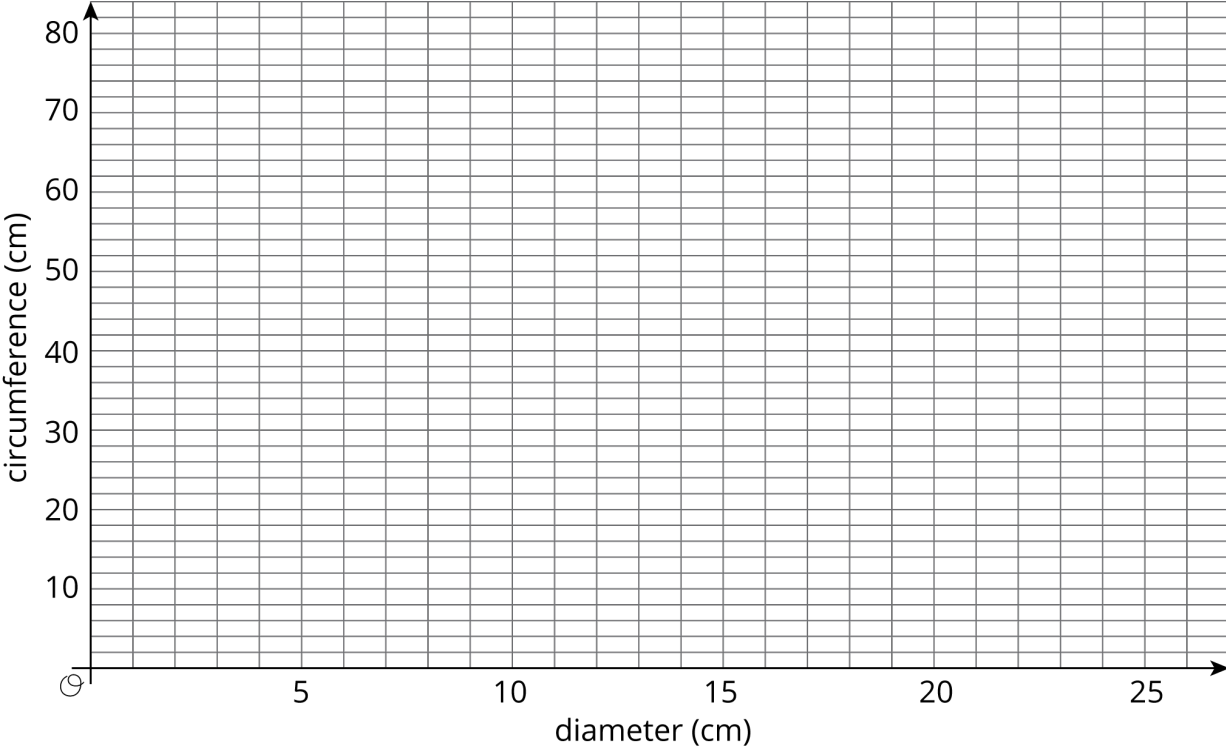
Here are five circles, each with its diameter or circumference labeled.



Complete the table. Use the constant of proportionality estimated in the previous activity.

diameter (cm)	circumference (cm)
3	
10	
	24
	18
1	

2. Plot the diameter and circumference values from the table on the coordinate plane. What do you notice?





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Lesson 2: Exploring Circumference

1. Diego measured the diameter and circumference of several circular objects and recorded his measurements in the table.

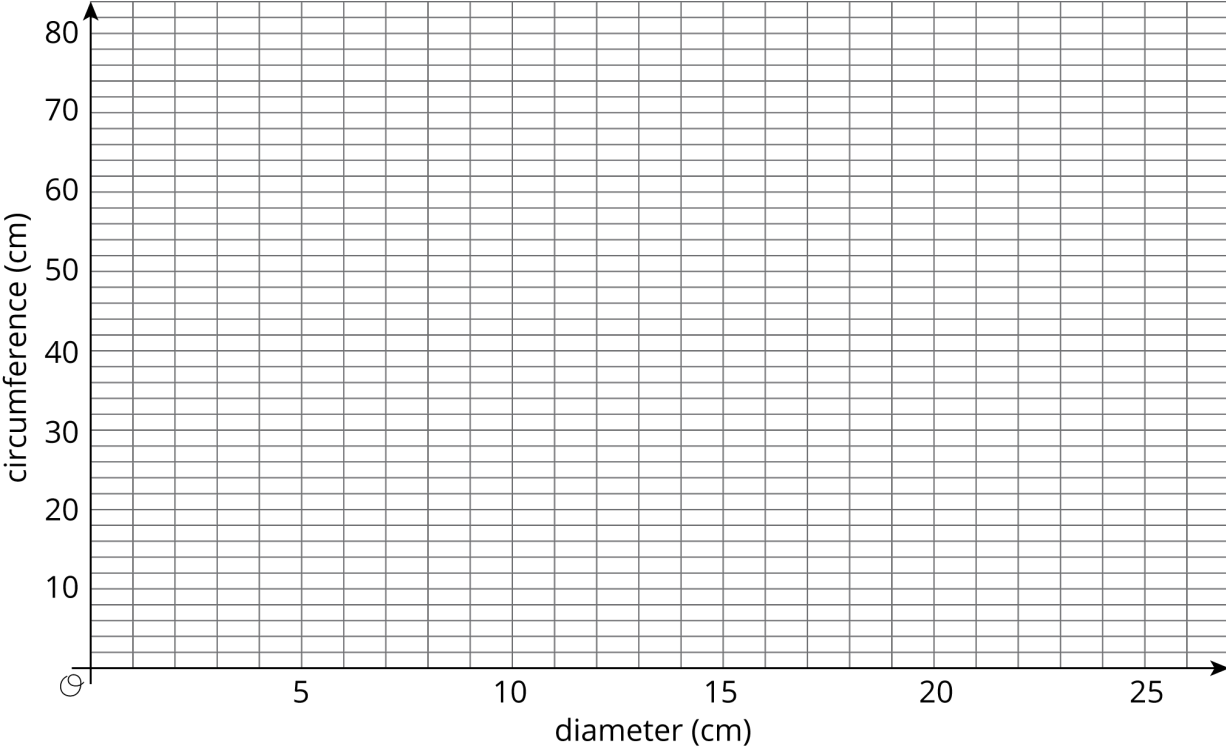
object	diameter (cm)	circumference (cm)
half dollar coin	3	10
flying disc	23	28
jar lid	8	25
flower pot	15	48

- Plot the diameter and circumference values from the table on the coordinate plane.
- One of his measurements is very inaccurate. Which measurement is it? Explain how you know.

2. Complete the table. Explain or show your reasoning.

object	diameter	circumference
hula hoop	35 in	
circular pond		556 ft
magnifying glass	5.2 cm	
car tire		71.6 in

2. Plot the diameter and circumference values from the table on the coordinate plane. What do you notice?





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Circumferences of Two Circles

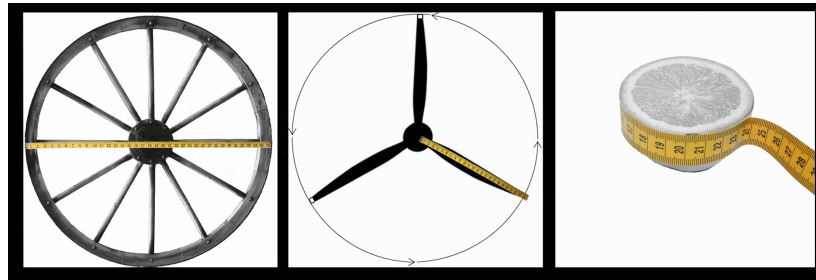
Circle A has diameter 6 cm. Circle B has diameter 5 cm. How much longer is the circumference of Circle A?

Lesson: Applying Circumference

Activity Statement: What Do We Know? What Can We Estimate?

Here are some pictures of circular objects, with measurement tools shown. The measurement tool on each picture reads as follows:

- Wagon wheel: 3 feet
- Plane propeller: 24 inches
- Sliced Orange: 20 centimeters



1. For each picture, what measurement(s) do you know?
2. Based on this information, what measurement(s) could you estimate for each picture?

Activity Statement: Using π

In the previous activity, we looked at pictures of circular objects. One measurement for each object is listed in the table.

Your teacher will assign you an approximation for π to use for this activity.

1. Complete the table.

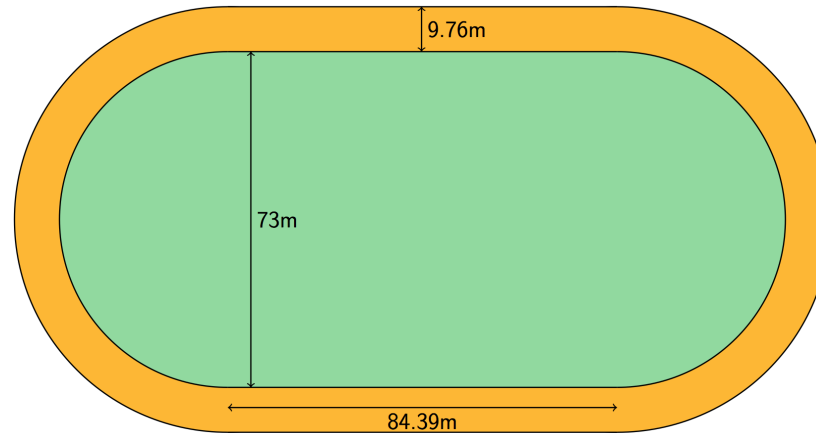
object	radius	diameter	circumference
wagon wheel		3 ft	
airplane propeller	24 in		
orange slice			20 cm

2. A bug was sitting on the tip of the propeller blade when it started to rotate. The bug held on for 5 rotations before flying away. How far did the bug travel before it flew off?

3. If the wagon travels 1,885 feet, about how many full rotations does the wheel make?

Activity Statement: Around the Running Track

The field inside a running track is made up of a rectangle that is 84.39 m long and 73 m wide, with a half-circle at each end.



1. What is the distance around the inside of the track? Explain or show your reasoning.

2. The running lanes are 9.76 m wide all the way around. What is the distance around the outside of the track? Explain or show your reasoning.